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OM protein - protein search, using sw model

Run on: July 29, 2002, 15:55:52 ; Search time 38.16 seconds
(without alignments)
294.439 Million cell updates/sec

Title: US-08-866-354-40

Perfect score: 2457

Sequence: 1 MLVPSHYPETLRLSLASPS.....RARLSALTLPLMLTLAL 460

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued_Patents_AA: *
1: /cgn2_6/pdata/2/1aa/5A.COMB.pep: *
2: /cgn2_6/pdata/2/1aa/5B.COMB.pep: *
3: /cgn2_6/pdata/2/1aa/6A.COMB.pep: *
4: /cgn2_6/pdata/2/1aa/6B.COMB.pep: *
5: /cgn2_6/pdata/2/1aa/6C.COMB.pep: *
6: /cgn2_6/pdata/2/1aa/6D.COMB.pep: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2405	97.9	464	3	US-08-957-063-6
2	2405	97.9	464	4	US-09-487-685-6
3	2283	92.9	464	3	US-08-957-063-3
4	2283	92.9	464	4	US-09-487-685-3
5	2268	92.3	664	3	US-08-957-063-18
6	2268	92.3	664	4	US-09-487-685-18
7	2186	89.0	664	3	US-08-957-063-16
8	2186	89.0	664	4	US-09-487-685-16
9	577.5	23.5	397	4	US-09-220-528-64
10	547.5	22.3	400	4	US-09-220-528-63
11	137	5.6	2703	1	US-08-185-432-19
12	127.5	5.2	4544	1	US-08-469-486-52
13	127.5	5.2	4544	2	US-08-469-658-52
14	118.5	4.8	2213	1	US-08-727-034-3
15	118.5	4.7	642	3	US-08-872-855-10
16	115.5	4.7	2214	1	US-08-727-034-7
17	115.5	4.7	4654	4	US-08-476-515A-84
18	115.5	4.7	4655	4	US-08-652-877-84
19	115.5	4.7	4655	4	US-08-652-877-86
20	115.5	4.7	4655	4	US-08-652-877-88
21	115.5	4.7	4655	4	US-08-652-877-90
22	114	4.6	1010	4	US-08-882-046-7
23	114	4.6	1036	4	US-09-068-740A-6
24	114	4.6	1187	4	US-09-068-740A-7
25	114	4.6	1218	2	US-08-400-159-6
26	114	4.6	1218	3	US-08-611-729A-6
27	114	4.6	1218	4	US-08-882-046-2

28	114	4.6	1218	4	US-09-068-740A-11	Sequence 11, Appl
29	113	4.6	1219	4	US-08-882-046-5	Sequence 5, Appl
30	112	4.6	1218	4	US-09-214-276-7	Sequence 7, Appl
31	112	4.6	2556	1	US-08-083-590A-20	Sequence 20, Appl
32	112	4.6	2556	3	US-08-532-384-20	Sequence 20, Appl
33	110	4.5	886	3	US-09-110-116-3	Sequence 3, Appl
34	109	4.4	637	1	US-07-847-743B-28	Sequence 28, Appl
35	109	4.4	637	1	US-08-456-201-28	Sequence 28, Appl
36	109	4.4	637	2	US-08-456-241-28	Sequence 28, Appl
37	109	4.4	637	3	PCT-US92-04295A-28	Sequence 28, Appl
38	107	4.4	645	1	US-07-847-743B-27	Sequence 27, Appl
39	107	4.4	645	1	US-08-456-201-27	Sequence 27, Appl
40	107	4.4	645	1	US-08-428-926-4	Sequence 4, Appl
41	107	4.4	645	1	US-08-428-927-4	Sequence 4, Appl
42	107	4.4	645	1	US-08-428-298-4	Sequence 4, Appl
43	107	4.4	645	1	US-08-339-517-4	Sequence 4, Appl
44	107	4.4	645	2	US-08-456-241-27	Sequence 27, Appl
45	107	4.4	645	4	US-09-020-880-93	Sequence 93, Appl

ALIGNMENTS

RESULT 1:
US-08-957-063-6
Sequence 6, Application US/08957063
Patent No. 6025157
GENERAL INFORMATION:
APPLICANT: Robert D. Klein, Arnon Rosenthal, Mary A. Hynes
TITLE OF INVENTION: Neuturin Receptor
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSER: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 Inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/957,063
FILING DATE: 24-Oct-1997
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/871
FILING DATE: 9-Jun-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 913
FILING DATE: 18-Feb-1997
ATTORNEY/AGENT INFORMATION:
NAME: Torchia, Ph.D., Timothy E.
REGISTRATION NUMBER: 36,700
REFERENCE/DOCKET NUMBER: P1086P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-8674
TELEFAX: 650/952-9881
INFORMATION FOR SEQ. ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 464 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-08-957-063-6

Query Match 97.9% Score 2405; DB 3; Length 464;
Best Local Similarity 100.0%; Pred. No. 3.1e-235;
Matches 451; Conservative 0; Mismatches 0; Gaps 0;
10 DELRLASPSLGGSEHLHGRPOVDFVRANELCAESNCSRYRTLROCLAGRNTML 69

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Db 14 DETLSLASPSLQSGSELHGMRPQVDCVRANELCAAESNCSSRYRTLROCLAGRDRNTWL 73
Oy 70 ANKECOALLEVLOESPLYDCRCKRGKKKELOCLQIYWSIHGLTGEFEFEYASPEPVTS 129
Db 74 ANKECOALLEVLOESPLYDCRCKRGKKKELOCLQIYWSIHGLTGEFEFEYASPEPVTS 133
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Db 134 RLSDFRLASIFSGTGTDPVAVSTKSNHCLDAKACNLNDCKKLSYSISICNREISPT 193
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Oy 250 LRSICRTDHLCSRRLADFHANCRASTRITSCPADNYQACLSYAGMIGFDMTPNVDN 309
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Db 314 PTGIYVSPWCNCRSGNMEBCEKFLRDTENPCLRNAIOAFNGTGVNMSKPGSLPAT 373
Oy 370 QAPREKTPSLPDDLSLSTSVITTCSTIOEGLKANKSKELSMCTELTTNISPS 429
Db 374 QAPREKTPSLPDDLSLSTSVITTCSTIOEGLKANKSKELSMCTELTTNISPS 433
Oy 430 KVKIKLNGSSRRARLSAALTALPLMLTLAL 460
Db 434 KVKIKLNGSSRRARLSAALTALPLMLTLAL 464

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RESULT 2

US-09-487-685-6

Sequence 6, Application US/09487685

Patent No. 6342348

GENERAL INFORMATION:

APPLICANT: Robert D. Klein, Arnon Rosenthal, Mary A. Hynes

TITLE OF INVENTION: Neurturin Receptor

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatIn (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/487,685

FILING DATE: 19-Jan-2000

CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/957,063

FILING DATE: <unknown>

APPLICATION NUMBER: 913

FILING DATE: 18-Feb-1997

ATTORNEY/AGENT INFORMATION:

NAME: Torchia, PhD., Timothy E.

REGISTRATION NUMBER: 36,700

REFERENCE/DOCKET NUMBER: P1086P2

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-8674

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 464 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-09-487-685-6

Query Match: 97.9%; Score 2405; DB 4; Length 464;

Best Local Similarity: 100.0%; Pred. No. 3,1e-235;

Matches 451; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 74 ANKECOALLEVLOESPLYDCRCKRGKKKELOCLQIYWSIHGLTGEFEFEYASPEPVTS 133
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Db 134 RLSDFRLASIFSGTGTDPVAVSTKSNHCLDAKACNLNDCKKLSYSISICNREISPT 193
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Db 194 RCNRKCKHALRQFDRVPSEYTYRMLFCSCODQACERRROTILPSCSYEDKEKPNCLD 253
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Db 254 LRSICRTDHLCSRRLADFHANCRASTRITSCPADNYQACLSYAGMIGFDMTPNVDN 313
Oy 310 PTGIYVSPWCNCRSGNMEBCEKFLRDTENPCLRNAIOAFNGTGVNMSKPGSLPAT 369
Db 314 PTGIYVSPWCNCRSGNMEBCEKFLRDTENPCLRNAIOAFNGTGVNMSKPGSLPAT 373
Oy 370 QAPREKTPSLPDDLSLSTSVITTCSTIOEGLKANKSKELSMCTELTTNISPS 429
Db 374 QAPREKTPSLPDDLSLSTSVITTCSTIOEGLKANKSKELSMCTELTTNISPS 433
Oy 430 KVKIKLNGSSRRARLSAALTALPLMLTLAL 460
Db 434 KVKIKLNGSSRRARLSAALTALPLMLTLAL 464

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RESULT 3

US-08-957-063-3

Sequence, 3, Application US/08957063

Patent No. 6025157

GENERAL INFORMATION:

APPLICANT: Robert D. Klein, Arnon Rosenthal, Mary A. Hynes

TITLE OF INVENTION: Neurturin Receptor

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatIn (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/957,063

FILING DATE: 24-Oct-1997

CLASSIFICATION: 800

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/871

FILING DATE: 9-Jun-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 913

FILING DATE: 18-Feb-1997

ATTORNEY/AGENT INFORMATION:

NAME: Torchia, PhD., Timothy E.

REGISTRATION NUMBER: 36,700
 REFERENCE/DOCKET NUMBER: P1086P2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650/225-8674
 TELEFAX: 650/952-9881
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 464 amino acids
 TYPE: Amino Acid
 TOPOLOGY: Linear
 US-08-957-063-3

Query Match 92.9%; Score 2283; DB 3; Length 464;
 Best Local Similarity 94.5%; Pred. No. 7,1e-223;
 Matches 426; Conservative 8; Mismatches 17; Indels 0; Gaps 0;

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 70 ANKEQQAALVLEQSPLYDCRCRCKGKKELOCIQIYWSIHGLTGEFEYEASPYEPTVS 129
 74 ANKEQQAALVLEQSPLYDCRCRCKGKKELOCIQIYWSIHGLTGEFEYEASPYEPTVS 133
 130 RLSDFRLASIFSGTGPDAVSTKSNHCLDAKACNLNDCKKLRSSYISICNREISPT 189
 134 RLSDFRLASIFSGTGPDAVSTKSNHCLDAKACNLNDCKKLRSSYISICNREISPT 193
 190 RCNRRCKHAKLQFPDVPSEYTYRMLFCSCODQACAEERRRQTIILPSCSYEDEKERNCLD 249
 194 RCNRRCKHAKLQFPDVPSEYTYRMLFCSCODQACAEERRRQTIILPSCSYEDEKERNCLD 253
 250 LRLSLRTHLCSRLADFPANCRASYRTITSCPADNYQACLSYAGMIGFDMTPNVDNS 309
 254 LRGVCRTHLCSRLADFPANCRASYRTITSCPADNYQACLSYAGMIGFDMTPNVDNS 313
 310 PTGIIVSPMCNCRSGNMECECEKFLRDEFTENPCLRNAIOAFNGTGVNMSPKPSLPAT 369
 314 PTGIIVSPMCNCRSGNMECECEKFLRDEFTENPCLRNAIOAFNGTGVNMSPKPSLPAT 373
 370 QAPVEKTPSLPDDLSDSLSTIGTSVITTCSTIOEGLKANKSKELSMCTELTTNIPGS 429
 374 QAPVEKTPSLPDDLSDSLSTIGTSVITTCSTIOEGLKANKSKELSMCTELTTNIPGS 433
 430 KVIKLNSSSRARLSAALTALPLMLTAL 460
 434 NKVIRKNSGSPRARPSAALTIVSLMLKAL 464

RESULT 4
 US-09-487-685-3
 Sequence 3, Application US/09487685
 Patent No. 6342348

GENERAL INFORMATION:
 APPLICANT: Robert D. Kiehn, Arnon Rosenthal, Mary A. Hynes
 TITLE OF INVENTION: Neurturin Receptor
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.
 STREET: 1 DNA Way
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winpatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/487,685

FILING DATE: 19-Jan-2000

CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/957,063
 FILING DATE: <Unknown>
 APPLICATION NUMBER: 913
 FILING DATE: 18-Feb-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Torchia, Phd., Timothy E.
 REGISTRATION NUMBER: 36,700
 REFERENCE/DOCKET NUMBER: P1086P2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650/225-8674
 TELEFAX: 650/952-9881
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 464 amino acids
 TYPE: Amino Acid
 TOPOLOGY: Linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 US-09-487-685-3

Query Match 92.9%; Score 2283; DB 4; Length 464;
 Best Local Similarity 94.5%; Pred. No. 7,1e-223;
 Matches 426; Conservative 8; Mismatches 17; Indels 0; Gaps 0;

10 DETLSLSPSSLSQSELHGMRPVDCVRANELCAAESNCSSRYRTLROCLAGRDNTML 69
 14 DETLSLSPSSLSQDELHGMRPVDCVRANELCAAESNCSSRYRTLROCLAGRDNTML 73
 70 ANKEQQAALVLEQSPLYDCRCRCKGKKELOCIQIYWSIHGLTGEFEYEASPYEPTVS 129
 74 ANKEQQAALVLEQSPLYDCRCRCKGKKELOCIQIYWSIHGLTGEFEYEASPYEPTVS 133
 130 RLSDFRLASIFSGTGPDAVSTKSNHCLDAKACNLNDCKKLRSSYISICNREISPT 189
 134 RLSDFRLASIFSGTGPDAVSTKSNHCLDAKACNLNDCKKLRSSYISICNREISPT 193
 190 RCNRRCKHAKLQFPDVPSEYTYRMLFCSCODQACAEERRRQTIILPSCSYEDEKERNCLD 249
 194 RCNRRCKHAKLQFPDVPSEYTYRMLFCSCODQACAEERRRQTIILPSCSYEDEKERNCLD 253
 250 LRLSLRTHLCSRLADFPANCRASYRTITSCPADNYQACLSYAGMIGFDMTPNVDNS 309
 254 LRGVCRTHLCSRLADFPANCRASYRTITSCPADNYQACLSYAGMIGFDMTPNVDNS 313
 310 PTGIIVSPMCNCRSGNMECECEKFLRDEFTENPCLRNAIOAFNGTGVNMSPKPSLPAT 369
 314 PTGIIVSPMCNCRSGNMECECEKFLRDEFTENPCLRNAIOAFNGTGVNMSPKPSLPAT 373
 370 QAPVEKTPSLPDDLSDSLSTIGTSVITTCSTIOEGLKANKSKELSMCTELTTNIPGS 429
 374 QAPVEKTPSLPDDLSDSLSTIGTSVITTCSTIOEGLKANKSKELSMCTELTTNIPGS 433
 430 KVIKLNSSSRARLSAALTALPLMLTAL 460
 434 NKVIRKNSGSPRARPSAALTIVSLMLKAL 464

RESULT 5
 US-08-957-063-18
 Sequence 18, Application US/08957063
 Patent No. 6025157

GENERAL INFORMATION:

APPLICANT: Robert D. Kiehn, Arnon Rosenthal, Mary A. Hynes

TITLE OF INVENTION: Neurturin Receptor

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Winpatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/957.063
FILING DATE: 24-Oct-1997
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/871
FILING DATE: 9-Jun-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 913
FILING DATE: 18-Feb-1997
ATTORNEY/AGENT INFORMATION:
NAME: Torchia, PhD., Timothy E.
REGISTRATION NUMBER: 36,700
REFERENCE/DOCKET NUMBER: P1086P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-8674
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 664 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-08-957-063-18

Query Match 92.3%; Score 2268; DB 3; Length 664;
Best Local Similarity 99.8%; Pred. No. 4.1e-221;
Matches 420; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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DB 14 DETRLSLASPSLOGSELHGMRPOVDCVRANELCAESNCSSRYRTLROCLAGRDNTML 73
QY 70 ANKECOALEVLOESPLYDCRCRGMKKELOCLQIYWSIHGLTEGEEFEYASPEYPTS 129
DB 74 ANKECOALEVLOESPLYDCRCRGMKKELOCLQIYWSIHGLTEGEEFEYASPEYPTS 133
QY 130 RLSDIFRLASIFSGTGTPAVSTKSNHCLDAKACNLNDNCKKLRSYSISICNREISPT 189
DB 134 RLSDIFRLASIFSGTGTPAVSTKSNHCLDAKACNLNDNCKKLRSYSISICNREISPT 193
QY 190 RCNRRKCHKALROFFDRVPSEYTYRMLFCSCODQACAEERRQTLIPSCSYEDKEKPNCLD 249
DB 194 RCNRRKCHKALROFFDRVPSEYTYRMLFCSCODQACAEERRQTLIPSCSYEDKEKPNCLD 253
QY 250 LRLSICRTHLCLRSRLADHANCRASTRTITSCPADNYOACLSYAGMIGFMTPTNYVDSN 309
DB 254 LRLSICRTHLCLRSRLADHANCRASTRTITSCPADNYOACLSYAGMIGFMTPTNYVDSN 313
QY 310 PTGIVSPWCNCRSGNNEECCERFLRDTENPCLRNAIOAFNGTVDVMSPKGSLPAT 369
DB 314 PTGIVSPWCNCRSGNNEECCERFLRDTENPCLRNAIOAFNGTVDVMSPKGSLPAT 373
QY 370 QAPVEKTPSLPDDLSDSTSLGTSVITTCSTIOEGGLKANNKSKELSMKFTELTTNISPGS 429
DB 374 QAPVEKTPSLPDDLSDSTSLGTSVITTCSTIOEGGLKANNKSKELSMKFTELTTNISPGS 433
QY 430 K 430
DB 434 R 434

RESULT 6
US-09-487-685-18
Sequence 18, Application US/09487685
Patent No. 6342348
GENERAL INFORMATION:

APPLICANT: Robert D. Klein, Arnon Rosenthal, Mary A. Hynes
TITLE OF INVENTION: Neuturin Receptor
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Winpatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/487,685
FILING DATE: 19-Jan-2000
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/957,063
FILING DATE: <unknown>
FILING DATE: 18-Feb-1997
ATTORNEY/AGENT INFORMATION:
NAME: Torchia, PhD., Timothy E.
REGISTRATION NUMBER: 36,700
REFERENCE/DOCKET NUMBER: P1086P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-8674
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 664 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-09-487-685-18

Query Match 92.3%; Score 2268; DB 4; Length 664;
Best Local Similarity 99.8%; Pred. No. 4.1e-221;
Matches 420; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 10 DETRLSLASPSLOGSELHGMRPOVDCVRANELCAESNCSSRYRTLROCLAGRDNTML 69
DB 14 DETRLSLASPSLOGSELHGMRPOVDCVRANELCAESNCSSRYRTLROCLAGRDNTML 73
QY 70 ANKECOALEVLOESPLYDCRCRGMKKELOCLQIYWSIHGLTEGEEFEYASPEYPTS 129
DB 74 ANKECOALEVLOESPLYDCRCRGMKKELOCLQIYWSIHGLTEGEEFEYASPEYPTS 133
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DB 134 RLSDIFRLASIFSGTGTPAVSTKSNHCLDAKACNLNDNCKKLRSYSISICNREISPT 193
QY 190 RCNRRKCHKALROFFDRVPSEYTYRMLFCSCODQACAEERRQTLIPSCSYEDKEKPNCLD 249
DB 194 RCNRRKCHKALROFFDRVPSEYTYRMLFCSCODQACAEERRQTLIPSCSYEDKEKPNCLD 253
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DB 254 LRLSICRTHLCLRSRLADHANCRASTRTITSCPADNYOACLSYAGMIGFMTPTNYVDSN 313
QY 310 PTGIVSPWCNCRSGNNEECCERFLRDTENPCLRNAIOAFNGTVDVMSPKGSLPAT 369
DB 314 PTGIVSPWCNCRSGNNEECCERFLRDTENPCLRNAIOAFNGTVDVMSPKGSLPAT 373
QY 370 QAPVEKTPSLPDDLSDSTSLGTSVITTCSTIOEGGLKANNKSKELSMKFTELTTNISPGS 429
DB 374 QAPVEKTPSLPDDLSDSTSLGTSVITTCSTIOEGGLKANNKSKELSMKFTELTTNISPGS 433
QY 430 K 430

Db 434 R 434

RESULT 7

US-08-957-063-16

Sequence 16, Application US/08957063

Patent No. 6025157

GENERAL INFORMATION:

APPLICANT: Robert D. Klein, Arnon Rosenthal, Mary A. Hynes

TITLE OF INVENTION: Neurturin Receptor

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winpatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/957,063

FILING DATE: 24-Oct-1997

CLASSIFICATION: 800

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/871

FILING DATE: 9-Jun-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 913

FILING DATE: 18-Feb-1997

ATTORNEY/AGENT INFORMATION:

NAME: Torchia, Phd., Timothy E.

REGISTRATION NUMBER: 36,700

REFERENCE/DOCKET NUMBER: P1086P2

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-8674

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 664 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

US-08-957-063-16

Query Match

Best Local Similarity 89.0%; Score 2186; DB 3; Length 664;

Matches 402; Conservative 8; Mismatches 11; Indels 0; Gaps 0;

10 DETLSLASPSLQSGSELHGMRPQVDCVANELCAAESNCSSRYRTLROCLAGRDNTML 69
14 DETLSLASPSLQSGSELHGMRPQVDCVANELCAAESNCSSRYRTLROCLAGRDNTML 73
70 ANKECOALEVLOESPLDYCRCKRGKKELQCLQIYWSIHGLTGEFEYEAAPYEPVTS 129
74 ANKECOALEVLOESPLDYCRCKRGKKELQCLQIYWSIHGLTGEFEYEAAPYEPVTS 133
130 RLSDFRLASISFGTGDPAVSTKSNHCLDAKACNLNCKKLRSSYSISCNREISPT 189
134 RLSDFRLASISFGTGDPAVSTKSNHCLDAKACNLNCKKLRSSYSISCNREISPT 193
190 RKNRRKCHALROFDRVSEYTYRMLFCSCODQACAEERRROTILPSCSYEDKEKPNCD 249
194 RKNRRKCHALROFDRVSEYTYRMLFCSCODQACAEERRROTILPSCSYEDKEKPNCD 253
250 LRSICRTHLCSRRLADFIHANCRASTRITSCPADNYQACLSYAGMIGFDMTPNYVDSN 309
254 LRSICRTHLCSRRLADFIHANCRASTRITSCPADNYQACLSYAGMIGFDMTPNYVDSN 313

QY 310 PRTGIVSPWCMCRGSGNMECEKFLROFTENPCLRNATQAGNGTVDVMSKPGSLPAT 369

DB 314 PRTGIVSPWCMCRGSGNMECEKFLROFTENPCLRNATQAGNGTVDVMSKPGSLPAT 373

QY 370 QAPREKTPSLPDDLSDSLSTSVTTCTSTIOEGLKANKSKELSMCTELTTNISPCS 429

DB 374 QAPREKTPSLPDDLSDSLSTSVTTCTSTIOEGLKANKSKELSMCTELTTNISPCS 433

QY 430 K 430

DB 434 R 434

RESULT 8

US-09-487-685-16

Sequence 16, Application US/09487685

Patent No. 6342348

GENERAL INFORMATION:

APPLICANT: Robert D. Klein, Arnon Rosenthal, Mary A. Hynes

TITLE OF INVENTION: Neurturin Receptor

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winpatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/487,685

FILING DATE: 19-Jan-2000

CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/957,063

FILING DATE: <unknown>

APPLICATION NUMBER: 913

FILING DATE: 18-Feb-1997

ATTORNEY/AGENT INFORMATION:

NAME: Torchia, Phd., Timothy E.

REGISTRATION NUMBER: 36,700

REFERENCE/DOCKET NUMBER: P1086P2

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-8674

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 664 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

SEQUENCE DESCRIPTION: SEQ ID NO: 16:

US-09-487-685-16

Query Match

Best Local Similarity 89.0%; Score 2186; DB 4; Length 664;

Matches 402; Conservative 8; Mismatches 11; Indels 0; Gaps 0;

10 DETLSLASPSLQSGSELHGMRPQVDCVANELCAAESNCSSRYRTLROCLAGRDNTML 69
14 DETLSLASPSLQSGSELHGMRPQVDCVANELCAAESNCSSRYRTLROCLAGRDNTML 73
70 ANKECOALEVLOESPLDYCRCKRGKKELQCLQIYWSIHGLTGEFEYEAAPYEPVTS 129
74 ANKECOALEVLOESPLDYCRCKRGKKELQCLQIYWSIHGLTGEFEYEAAPYEPVTS 133
130 RLSDFRLASISFGTGDPAVSTKSNHCLDAKACNLNCKKLRSSYSISCNREISPT 189
134 RLSDFRLASISFGTGDPAVSTKSNHCLDAKACNLNCKKLRSSYSISCNREISPT 193

QY 190 RCNRKCHKALROFEDRVSEYTYRMLEFCSCODACAEERRQTLIPSCSYEDKEKPNCLD 249
Db 194 RCNRKCHKALROFEDRVSEYTYRMLEFCSCODACAEERRQTLIPSCSYEDKEKPNCLD 253
QY 250 LRSICRDLHCRSLADPHANCRASTRTTSCPADNYOACLSYAGMTGFMTPNYVDSN 309
Db 254 LRVCRTDHLCRSLADPHANCRASTRTTSCPADNYOACLSYAGMTGFMTPNYVDSN 313
QY 310 PTGIYSPWMCRCGSGNNEECEEFLRDPFTEPNCLRNAIOAFNGTGVNMPKPSLPAT 369
Db 314 PTGIYSPWMCRCGSGNNEECEEFLRDPFTEPNCLRNAIOAFNGTGVNMPKPSLPAT 373
QY 370 QAPREKTPSLPDDLSDSTSLGTSTVITTCSTIOEGLKANNKSKELSMCFTELTTNIPGS 429
Db 374 QAPREKTPSLPDDLSDSTSLGTSTVITTCSTVQEGGLKANNKSKELSMCFTELTTNIPGP 433
QY 430 K 430
Db 434 R 434

RESULT 9

Sequence 64, Application US/09220528A
Patent No. 6284540
GENERAL INFORMATION:
APPLICANT: Milbrandt, Jeffrey D.
APPLICANT: Balogh, Robert H.
TITLE OF INVENTION: Artemin, A No. 6284540el Neurotrophic Factor
FILE REFERENCE: 6029-7998
CURRENT APPLICATION NUMBER: US/09/220,528A
EARLIER FILING DATE: 1998-12-24
EARLIER APPLICATION NUMBER: 09/218,698
EARLIER FILING DATE: 1998-12-22
EARLIER APPLICATION NUMBER: 60/108,148
EARLIER FILING DATE: 1998-11-12
EARLIER APPLICATION NUMBER: 09/163,283
EARLIER FILING DATE: 1998-09-29
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 64
LENGTH: 397
TYPE: PRT
ORGANISM: Murine
US-09-220-528-64

Query Match 23.58; Score 577.5; DB 4; Length 397;

Best Local Similarity 38.88; Pred. No. 3.9e-50;
Matches 127; Conservative 40; Mismatches 125; Indels 35; Gaps 9;

36 CVARNELCAASNSRSRTLRQCLAGDRNTML-----ANKECOALEVLOESPLOYDRC 91
Db 41 CTQARKKCEAPACKAAVQHLGCTSSLRPLBESAMSDCLEAQAOLNSSLIDRC 100
QY 92 KRGKKELQCIQIYMSIHLGTEEGEEFYEASPYE-PVTSR-----LSDIFRLASIFSGTG 145
Db 101 HRRKHDATCLDIYWTYHPARSLDYLDPVPEYDTYSKPMKNNLSKLNML----- 152
QY 146 TDPAVSTKSNHCLDAKACNINDCKKIRRSYISICNREISPTERCNRKCHKALROFED 205
Db 153 -----KPDSDCLTFAMLCIHLKCDRLKRAYGEACS-----GIRCOHVLCLAOILRSPFE 202
QY 206 RVPEYTYRMLEFCSC--ODOACAEERRQTLIPSCSYEDKEKPNCLDRLSICRDLHCRSR 263
Db 203 KAASHHOGLLCPAPBDAGGERRRTTAPSCAL-PSVTPNCLDLCSFECRADPLCRSR 261
QY 264 LADPHANCRASTRTTSCPADNYOACLSYAGMTGFMTPNYVDSNPTGIYSPWMCRCG 323
Db 262 LMDIOTGICHF--MDILGTCATEGSRCLRAYLGLGTANTPRFISKVNTVALS--CTCRG 317
QY 324 SGNNEECEEFLRDPFTEPNCLRNAIOA 350

Db 318 SGNLQDECEQLERSFSQNPCLVEAIAA 344

RESULT 10

Sequence 63, Application US/09220528A
Patent No. 6284540
GENERAL INFORMATION:
APPLICANT: Milbrandt, Jeffrey D.
APPLICANT: Balogh, Robert H.
TITLE OF INVENTION: Artemin, A No. 6284540el Neurotrophic Factor
FILE REFERENCE: 6029-7998
CURRENT APPLICATION NUMBER: US/09/220,528A
EARLIER FILING DATE: 1998-12-24
EARLIER APPLICATION NUMBER: 09/218,698
EARLIER FILING DATE: 1998-12-22
EARLIER APPLICATION NUMBER: 60/108,148
EARLIER FILING DATE: 1998-11-12
EARLIER APPLICATION NUMBER: 09/163,283
EARLIER FILING DATE: 1998-09-29
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 63
LENGTH: 400
TYPE: PRT
ORGANISM: Homo sapiens
US-09-220-528-63

Query Match 22.38; Score 547.5; DB 4; Length 400;
Best Local Similarity 36.08; Pred. No. 4.3e-47;
Matches 131; Conservative 45; Mismatches 139; Indels 49; Gaps 11;

QY 61 MLVPSHYPDDELASLAPSSLSQSELHGMRPQVDCVARNELCAAESNCSSRYTRLRQCL 60
Db 19 LLLPSPPLAAGDPLPESRLMNS-----CLQARRKCAQADPTCSAAVHHHDSCT 68
QY 61 AGRDRNTMLANKE-----COALEVLOESPLOYDRCRGKMKELQCIQIYMSIHLGTE 114
Db 69 S--SISTPLPEEBSVPADCLEAQAOLNSSLIGCMCHRRKKNQVACDIYWTYHRAASL 126
QY 115 GEEFYEASPYE-PVTSR-----LSDIFRLASIFSGTGTPAVSTKSNHCLDAKACNIND 168
Db 127 GNYELDVPYEDTYSKPMKNNLSKLNML-----KPDSDCLTFAMLCIHLKCDRL 173
QY 169 NCKKIRRSYISICNREISPTERCNRKCHKALROFEDRVSEYTYRMLEFCSC--ODOACA 226
Db 174 KCDRLKRAYGEACS-----GPHCOHVLCLAOILRSPFEKAEPRHAGGLLCPAPBDRCG 228
QY 227 ERRQTLIPSCSYEDKEKPNCLDRLSICRDLHCRSLADPHANCRASTRTTSCPADNY 286
Db 229 ERRNTIAPNCL-PRVAPNCLLELRCLFSDPLCRSLRYDQTHCP--MDILGTCATEG 285
QY 287 QACLSYAGMTGFMTPNYVDSNPTGIYSPWMCRCGSGNNEECEEFLRDPFTEPNCLRN 346
Db 286 SRCIRAYLGLGTANTPRFISVNTVALS--CTCRGSGNLQDECEMLEGFFSHPCILTE 343
QY 347 AIOA 350
Db 344 AIOA 347
RESULT 11
Sequence 19, Application US/08185432
Patent No. 5730652
GENERAL INFORMATION:
APPLICANT: Artavanis-Tsakonas, Spyridon
APPLICANT: Buseau, Isabelle
APPLICANT: Diederich, Robert J.
APPLICANT: Xu, Tian
APPLICANT: Matsuno, Kenji